

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG _____ ELECTRIC LOGS _____ FILE ☒ WATER SANDS _____ LOCATION INSPECTED OIL SUB. REPORT/abd. _____** Location Abandoned - Application Rescinded - 1-5-83*DATE FILED 12-21-81

LAND: FEE & PATENTED

STATE LEASE NO.

PUBLIC LEASE NO.

U-29637

INDIAN

DRILLING APPROVED: 1-18-82

SPUDDED IN:

COMPLETED:

PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: LA 1-5-83FIELD: 7/86 GORDON CREEK

UNIT:

COUNTY: CARBONWELL NO. FEDERAL #13-1API NO. 43-007-30073LOCATION 691FT. FROM ☒ (S) LINE.731FT. FROM (E) ☒ LINE.SE SE

1/4 - 1/4 SEC.

13

TWP.

RGE.

SEC.

OPERATOR

TWP.

RGE.

SEC.

OPERATOR

14S7E13MOSBACHER PRODUCTION CO.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Mosbacher Production Co. c/o Allen, Bludworth & Crouch

3. ADDRESS OF OPERATOR

P. O. Box 976 Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

731' FEL 691' FSL SE SE Lot #4

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 14 miles west of Price, Utah.

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

691'

16. NO. OF ACRES IN LEASE

602.53

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

19. PROPOSED DEPTH

4100'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

7662' GR

22. APPROX. DATE WORK WILL START*

As soon as possible after ap-
proval depending on rig avail-
ability.

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#/Ft. K-55	250'	Sufficient To Circulate To Surface
8-3/4"	5-1/2"	15.5#/Ft. K-55	4100'	275 Sx*

*Cement volume will be determined by hole-size and caliper. Calculate after logging.

Drill 12-1/4" hole to 250' and run approximately 250' of 9-5/8" casing and cement
to surface.

Drill 8-3/4" hole to 4100' and evaluate all hydrocarbon shows.

If the well is commercial, new 5-1/2" 15.5# K-55 casing will be run and cemented.

If the well is dry, a dry-hole marker will be set and the surface will be restored
as outlined in the NTL-6. Cement plugs will be set according to U.S.G.S.
instructions.

TEN POINT PLAN IS ATTACHED

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive
zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout
preventer program, if any.

24.

SIGNED

B.W. Allen

TITLE Petroleum Engineer

DATE August 7, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

*W.P. Martin*FOR E. W. GUYNN
DISTRICT OIL & GAS SUPERVISOR

DATE

NOV 02 1981

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

*See Instructions On Reverse Side
CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPYFLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80*State O&G*

Identification No. 576-81

United States Department of the Interior
Geological Survey
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator MOSBACHER PRODUCTION CO. 113-1
Project Type OIL WELL
Project Location 731' FEL, 691' FSL, SE/4 SE/4 LOT 4, SEC 13 T14S, R7E
Well No. 13-1 Lease No. U-29637
Date Project Submitted 8/12/81

FIELD INSPECTION

Date 8/27/81

Field Inspection
Participants

<u>GEORGE DWACHAK</u>	<u>USGS</u>
<u>W. NOWAK, C. REED</u>	<u>USFS</u>
<u>B. BARNEY, M. MCBRIEN</u>	<u>USFS</u>
<u>R. J. LAUTERS</u>	<u>MOSBACHER</u>
<u>L. HAMILTON, D. PEATROSS</u>	<u>SKEWES & HAMILTON CONST.</u>

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

10/16/81

Date Prepared

George J. Dwachak
Environmental Scientist

I concur

OCT 19 1981

Date

W. P. Martin FOR E. W. GUNN
DISTRICT OIL & GAS SUPERVISOR
District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private corre- spondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Corre- spondence (date)	Phone check (date)	Meeting (date)						
1. Public health and safety	1 (10-14-81)						6	6 (8-27-81)	4,8
2. Unique charac- teristics	1 (10-14-81) 8-11-81						6	6 ↓	4,8,9
3. Environmentally controversial	1 (10-14-81) 8-11-81						6	6	4,8,9
4. Uncertain and unknown risks	1 ↓						6	6	4,8
5. Establishes precedents	1						6	6	4,8,9
6. Cumulatively significant							6	6	4
7. National Register historic places	1 (10-14-81) ↓								
8. Endangered/ threatened species	1								
9. Violate Federal, State, local, tribal law	1						6	6	4,8

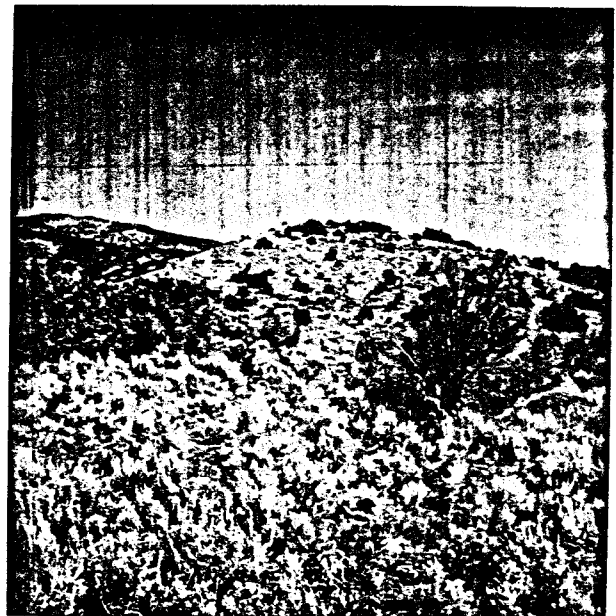
CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input - INCLUDING EA
2. Reviews Reports, or information received from Geological Survey
(Conservation Division, Geological Division, Water Resource Division,
Topographic Division)
3. Lease Stipulations/Terms
4. Application for Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement
8. RECOMMENDED STIPULATIONS
9. MEMORANDUM TO WELL FILE DATED 10-16-81



MOSBACHER 13-1

↑
SW



MOSBACHER 13-1

↑
N

RECOMMENDED STIPULATIONS

1. SEE USFS STIPULATIONS 1-14, INCLUDED IN PAGES 3-5 OF EA (COPY ATTACHED WITH NOTED OMISSIONS)
2. A TRASH CAGE OR BIN WILL BE USED INSTEAD OF A TRASH PIT
- 3 ALL TOPSOIL WILL BE STOCKPILED ALONG THE WEST EDGE OF LOCATION BEFORE DRILL PAD CONSTRUCTION
4. ALL DRILLING AND RECLAMATION MUST TERMINATE WHEN BIG GAME MIGRATE INTO THEIR WINTER RANGE. THE NOVEMBER 1 DATE STIPULATED IN THE LEASE IS TEMPORARILY EXTENDED TO NOVEMBER 30, 1981 UPON THE RECOMMENDATION OF THE FOREST SERVICE DISTRICT RANGER.
5. THE LEASE STIPULATION OF U-29637 WHICH PROHIBITS SURFACE OCCUPANCY WITHIN 500 FEET OF AN EXISTING ROAD, 200 FEET OF AN EXISTING TRAIL AND 500 FEET OF THE HIGH WATERLINE OF A STREAM OR RESERVOIR HAS BEEN TEMPORARILY WAIVED FOR THIS OPERATION. ACTIVITIES MAY OCCUR AS STAKED AND NOTED IN APD

The sites being considered in the proposal are located in management area "A" of the Ferron-Price Land Management Plan. Oil and gas leasing and exploration are allowed in this planning unit if exploration is coordinated with other resources.

Access to the proposed drill sites from State Highway 50-6 is provided by the Porphyry Bench Road (off-Forest) and Forest Development Roads (FDR) 50011 and 50048. Construction of new roads will not be necessary. Road improvements will be minimal. One gate will be replaced and relocated to facilitate the movement of equipment for the operation. Water will be purchased from a private source not within the Forest boundary and hauled to the location. A fenced pit will be provided for trash. The pit will be completely enclosed with small mesh wire. A total of four acres will be disturbed by drilling these wells.

The following management requirements and constraints (mitigating measures) have been added as part of the project as proposed:

1. All topsoil will be removed and stockpiled before drill pad construction.
2. All trash, contaminated gravel, and soils will be hauled off the Forest and disposed of properly.
3. Firefighting tools must be available at the drill site at all times and will consist of axes and shovels (one per crew member) and two backpack pumps or two fire extinguishers.
4. All damages to fences, cattleguards, developed water sources, or to other range improvements must be repaired immediately.
5. All drilling and reclamation must terminate when the big game migrate into their winter range. November 1 is the date stipulated on the leases. This date may be modified by the District Engineer of the U.S. Geological Survey upon recommendation of the Forest Service District Ranger.
6. The District Engineer of the U.S.G.S., upon recommendation of the District Ranger, must waive the surface occupancy stipulation in Federal Leases U-29638 and U-29637 which restricts surface occupancy within 500 feet from a road, 200 feet from a trail, 400 feet from any improvements, and 500 feet from the high water levels of a stream or reservoir.
7. All fluids must be adequately contained in the pit to prevent contamination of soils, ground water, and surface water.

OMIT
SEE USGS STIP
#3

OMIT
SEE USGS STIP
#4

OMIT
SEE USGS
STIP #5

8. A road use permit (~~see Appendix~~) is required prior to any surface disturbance onto Forest Service land. All stipulations in the road use permit must be followed.
9. The site plan must be approved by the Forest Service prior to any surface disturbance.
10. Upon completion of drilling, any disturbed areas will be immediately reclaimed. Mosbacher must submit a detailed reclamation plan. The following measures must be included in the plan:
 - a. The site must be reseeded immediately after the topsoil has been redistributed. The seed mix will include the following:

Fairway crested wheatgrass	60%
Intermediate wheatgrass	15%
Pubescent wheatgrass	15%
Slender wheatgrass	10%

Fifteen pounds of seed mix will be required for each acre. Each individual species must meet the following certification criteria:

Minimum pure live seed	80%
Maximum weeds	1%
 - b. All brush removed on the site will be broken up and spread evenly over the site area after seeding.
 - c. The subsoil should not be compacted prior to topsoil dispersal.
 - d. Until vegetation is reestablished, the reclaimed areas will be fenced with four strands of barbed wire spaced at intervals of 10, 20, 30, and 40 inches. If metal posts are used, they must be painted green.
 - e. Topsoil tests will be conducted at both sites before reclamation to test the quality of the soil. Fertilizer will be added as recommended by a specialist from a certified soil testing laboratory, a County Agricultural Extension Agent, or a Forest Service Soil Scientist.
11. Mosbacher will be held completely responsible for insuring that supervisory and field personnel related to this project be knowledgeable of ~~the~~ ^{ALL} stipulations ~~listed in the E.A.~~ and Road Use Permit. Complete copies of all these stipulations will be kept on site and available for joint review upon request of Forest Service Officials.

12. Off-road vehicle traffic is prohibited.
13. Harrassment of wildlife and cattle is prohibited
14. Pits must be dried before they are backfilled. Backfill material will consist of uncontaminated gravels and subsoil materials.

III. AFFECTED ENVIRONMENT

A general description of the environment can be found in the Ferron-Price Land Management Plan, planning unit A-2 and the Final Environmental Statement Development of Coal Resources in Central Utah. These documents are available at the Forest Supervisor's Office or Price District Office in Price, Utah.

The following environmental factors will be affected by the proposed drilling:

- A. Soils. At the site for proposed well 13-1, the soils are deep alluvial deposits with thick dark colored surface soils. There are few surface rock fragments, and the soils are relatively free of these rock fragments for at least 36 inches in depth. The soil presently supports Serviceberry, Big sagebrush, and grasses, indicating a good potential for revegetation. At the site for proposed well 25-1, the soil is poorer in quality. Gravel and cobble cover approximately 20-30 percent of the surface. The surface soil is gravelly loam and is thin. The subsoil consists of clay. Surface erosion has been active in the past but the soil is fairly well-protected by rock fragments at the present time. Revegetation will be difficult at this site. Refer to the soil report in the Appendix.
- B. Vegetation. The vegetation at sites 13-1 and 25-1 is the type of vegetation associated with benchlands, ridges, steep side slopes, and mesas at elevations between 6,500 feet and 9,500 feet. The dominant overstory species of this vegetative association are Gamble oak, Serviceberry, Curlleaf mahogany, Big sagebrush, Snowberry, Chokecherry, and Wild currant. A large number of understory species are associated with the dominant over-story brush species.
- C. Transportation. Access to well 25-1 will be via .91 miles of Corner Canyon Road, Forest Development Road 50048. Access to well 13-1 will be via .49 miles of Bob Wright Road, Forest Development Road 50011.

The existing Bob Wright Road is graded and drained to an approximate 12-16 foot top width. A Combination of culverts and dips is used to control cross drainage. Between Second Water Canyon and the Forest boundary to the north, the road cuts back into numerous draws on tight radius that would require reconstruction for the safe operation of hauling trucks. The road has many pitches that would require spot gravel and drainage to adequately protect the roadbed for truck hauling. These tight radius and crest vertical curves would require improvement to existing turnouts and construction of additional turnouts to safely add exploration traffic. Additional drainage should be added to reduce surfacing losses.

memorandum

DATE OCT 16 1981
George Diwachak
REPLY TO: Environmental Scientist
ATTN OF: Salt Lake City, Utah

SUBJECT: LEASE STIPULATIONS U-29638, U-29637

TO: WELL FILES - MOSBACHER PROD. CO. WELL NO 13-1, SEC
13 T14S, R7E AND WELL NO 25-1, LOT #1
SEC 25 T14S R7E

PER CORRESPONDENCE FROM FOREST SUPERVISOR, MANTI LA SAL
NATIONAL FOREST, THE F.S. HAS TEMPORARILY WAIVED SPECIAL STIPULATION
NO. 2 OF BOTH SUBJECT LEASES. THE WAIVER AUTHORIZES
USGS TO APPROVE THE PROPOSED, REFERENCED APD'S WITHIN
500 FT OF AN EXISTING ROAD, 200 FEET OF AN EXISTING TRAIL
AND 500 FT OF THE HIGH WATERLINE OF A STREAM OR RESERVOIR.
THE WAIVER ALSO ALLOWS FOR AN EXTENSION OF THE BIG GAME
WINTER RANGE STIPULATION WHICH RESTRICTS SURFACE OCCUPANCY
FROM NOV. 1 TO MARCH 1 TO NOV. 30, 1980. PLEASE REFER
TO USGS CER, USFS EA AND ES FIELD COPY OF APD.

George J. Diwachak



Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

OPTIONAL FORM NO. 10
(REV. 7-76)
GSA FPMR (41 CFR) 101-11.6
5010-112

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
Cordillera Corp. #17	2331 FHL, 20381 FEL, Sec. 20, T14S R7E, SLM, Emery Co., Utah 44434	U-02353
<p>1. Stratigraphy and Potential Oil and Gas Horizons. <i>The surface rocks are of the Blackhawk Formation a chief producer of coal. Inmeco Oil well #1, Sec 17 same Twp, report the following tops: Fernon-5820, Kaibab-13,956, White Rim-14,210, Dakota-6648, Buckhorn-7390, Morrison-7464, Salt Wash-7847, Summerville-8233, Luchis-8800, Entrada-9030, Carmel-10167, Navajo-11,000, Kayenta-11505, Wingate-11,554', Chinle-11,976, Mossback-12,254, Moenkopi-12316, Sinbad-13280. T.D. 15,703'.</i></p> <p>2. Fresh Water Sands. <i>See WRD report on page 2.</i></p> <p>3. Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.) <i>within lands prospectively valuable for coal. Coal beds occur in the Blackhawk Formation.</i></p> <p>4. Possible Lost Circulation Zones. <i>unknown.</i></p> <p>5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. <i>unknown.</i></p> <p>6. Possible Abnormal Pressure Zones and Temperature Gradients. <i>Unknown.</i></p> <p>7. Competency of Beds at Proposed Casing Setting Points. <i>Probably competent.</i></p> <p>8. Additional Logs or Samples Needed. <i>Logs to indicate coal beds in the Blackhawk & other intervals.</i></p> <p>9. References and Remarks <i>Within Clear Creek N. E. S.</i></p>		
Date: JUL 27 1977	Signed: <i>[Signature]</i>	

Depths of fresh-water zones:

Davis Oil Co., Goodwin Federal #1, Wildcat

1,980' fnl, 660' fel, sec. 28, T.14 S., R.9 E., Carbon Co., Utah

Elev. 6,400 ft (topo. map). Proposed depth 3,000 ft.

<u>Stratigraphic units</u>	<u>Tops, approx.</u>	<u>Quality of water</u>
Blue Gate Shale Member	surface	useable/saline
Garley Sandstone Member	(not known	saline
Tununk Shale Member	accurately	saline/brine
Cedar Mountain Shale	in this area)	brine

Discontinuous sandstone units within the Blue Gate Shale Member may yield useable water from depths of less than about 500 feet. Deeper aquifers contain saline water or brine.

USGS - WRD
10-21-70

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ☐SING
ZONE ☐

2. NAME OF OPERATOR

Mosbacher Production Co. c/o Allen, Bludworth & Crough

3. ADDRESS OF OPERATOR

P. O. Box 976 Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface

731' FEL 691' FSL

SE SE Lot #4

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 14 miles west of Price, Utah.

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LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

691'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

N/A

16. NO. OF ACRES IN LEASE

602.53

19. PROPOSED DEPTH

4100'

17. NO. OF ACRES ASSIGNED

TO THIS WELL

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20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

7662' GR

22. APPROX. DATE WORK WILL START*

As soon as possible after ap-
proval depending on rig avail-
ability.

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
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*Cement volume will be determined by hole-size and caliper. Calculate after logging.

Drill 12-1/4" hole to 250' and run approximately 250' of 9-5/8" casing and cement to surface.

Drill 8-3/4" hole to 4100' and evaluate all hydrocarbon shows.

If the well is commercial, new 5-1/2" 15.5# K-55 casing will be run and cemented.

If the well is dry, a dry-hole marker will be set and the surface will be restored as outlined in the NTL-6. Cement plugs will be set according to U.S.G.S. instructions.

TEN POINT PLAN IS ATTACHED

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

B.W. Allen

TITLE

Petroleum Engineer

DATE

August 7, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE
OF UTAH
DIVISION OF
OIL, GAS, AND MINING

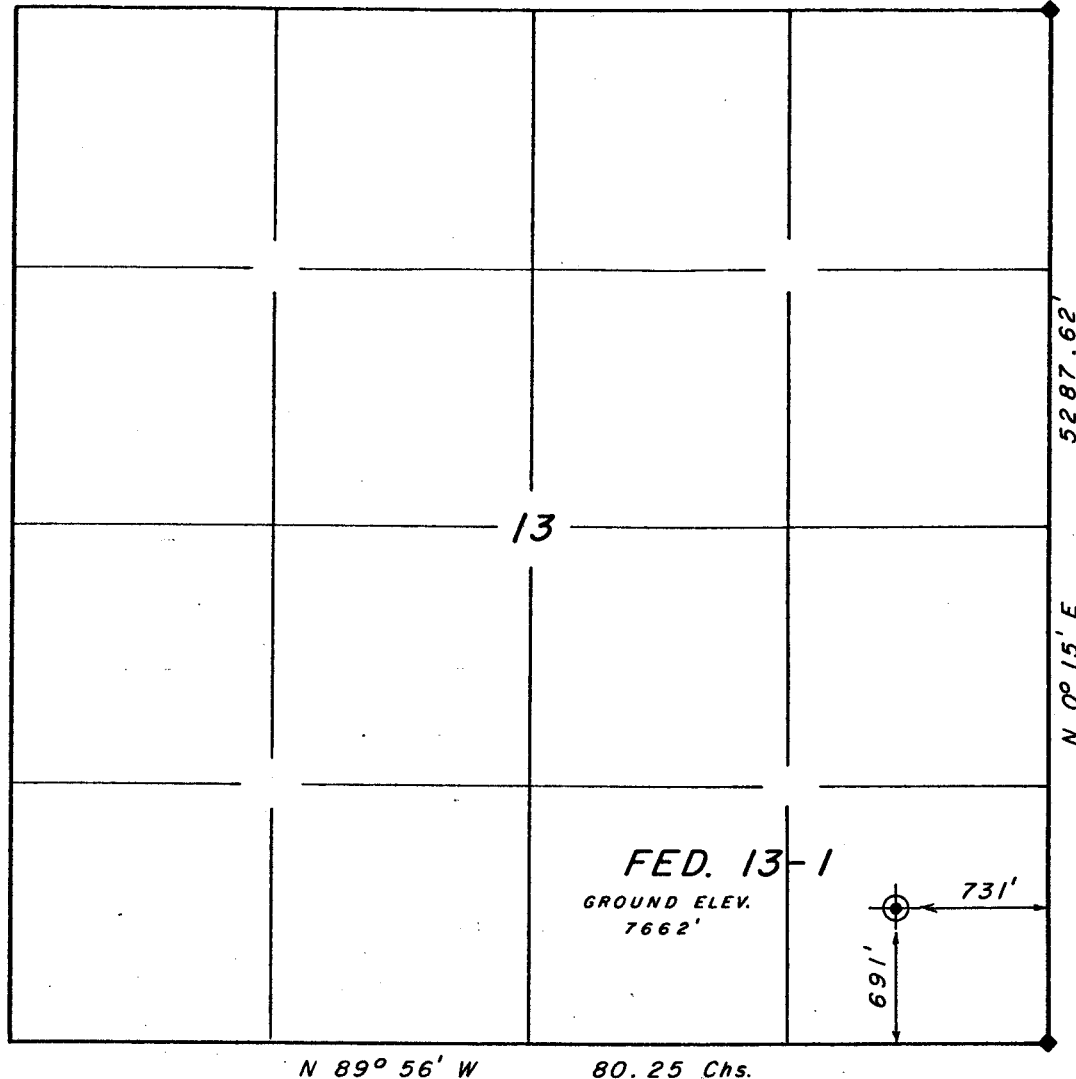
DATE:

BY:

*See Instructions On Reverse Side

MOSBACHER PRODUCTION CO. WELL LOCATION PLAT FEDERAL 13-1

LOCATED IN THE SE $\frac{1}{4}$ OF THE SE $\frac{1}{4}$ OF
SECTION 13, T14S, R7E, S.L.B.&M.



SCALE: 1"=1000'

LEGEND & NOTES

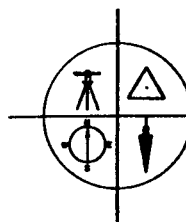
- ◆ FOUND BRASS CAP ON PIPE MONUMENTS
USED FOR THIS SURVEY.

THE GENERAL LAND OFFICE PLAT WAS
USED FOR REFERENCE AND CALCULATIONS.

SURVEYOR'S CERTIFICATE

I hereby certify that this plat was prepared
from field notes of an actual survey
performed by me, during which the shown
monuments were found or established.

Jerry D. Allred
Jerry D. Allred, Registered Land
Surveyor, Cert. No. 3817 (Utah)



JERRY D. ALLRED & ASSOCIATES
Surveying & Engineering Consultants

121 North Center Street
P.O. Drawer C
DUCHESNE, UTAH 84021
(801) 738-5352

DRILLING PROGNOSIS

Mosbacher Production Co.
SE SE LOT #4 SECTION 13, T 14 S, R 7 E
Carbon Carbon County, Utah
LEASE NO. UTAH 29637

1. SURFACE FORMATION

Mesaverde Group

2. GEOLOGICAL MARKERS - Estimated

Mancos Shale 1740'
Ferron Sand 3780'

3. WATER, OIL AND GAS ZONES

Ferron Sand 3780'

4. PROPOSED CASING SYSTEM (All New)

Depth	Size	Grade	Weight	Joint	Thread
0 - 250'	9-5/8"	K-55	36#/Ft.	ST&C	8Rd.
0 - 4100'	5-1/2"	K-55	15.5#/Ft.	ST&C	8Rd.

Design Criteria: Tension 1.8, Collapse 1.125, Burst 1.0

5. PRESSURE CONTROL EQUIPMENT

Type: b - 900 Series - Double Gate
Pressure Ratings: 3000 psi
Testing Procedure: Equipment will be pressure tested prior to drilling out from under surface casing and operational checks will be made each trip thereafter and recorded.

6. MUD PROGRAM (Visual Monitorings)

Native mud will be used from surface to 300'. Water & Drill-Sol - Keep weight as low as possible - mud up at 2500' with nondispersed low

solid Gel based drilling fluid.

Viscosity - 35-40 Weight - 8.8-9.0 Fluid loss - 10cc or less

A sufficient inventory will be stockpiled on location to maintain mud characteristics.

7. AUXILLARY EQUIPMENT

- 1) A kelly cock will be kept in the string at all times.
- 2) Periodic checks will be made each tour of the mud system.
- 3) A stabbing valve will be kept on the derrick floor to be stabbed into the drill pipe whenever the kelly is not in the string.
- 4) No float will be used.

8. EVALUATION PROGRAM

The well will be drilled to a total depth of 4100' into the Ferron Sand. An IES-SP log will be run from the bottom of the surface casing to total depth. A Gamma Ray-Density-Neutron log will be run across the Ferron Sand formation.

The logging program may change at the discretion of the well site geologist.

Drill Stem Test: As warranted by shows or logs.

Cores: None anticipated.

Stimulation

Breakdown will be with an acid treatment est. at 500 - 2000 gallons. Fracture treatments, if required, will be gelled water or oil-water emulsion. Volume will be determined following reservoir analysis. Storage tanks and stimulation equipment will be positioned in accordance with safe stimulation regulations.

A distance of 125 feet or more from frac tanks to bore hole and the same from frac trucks to the bore hole and tanks.

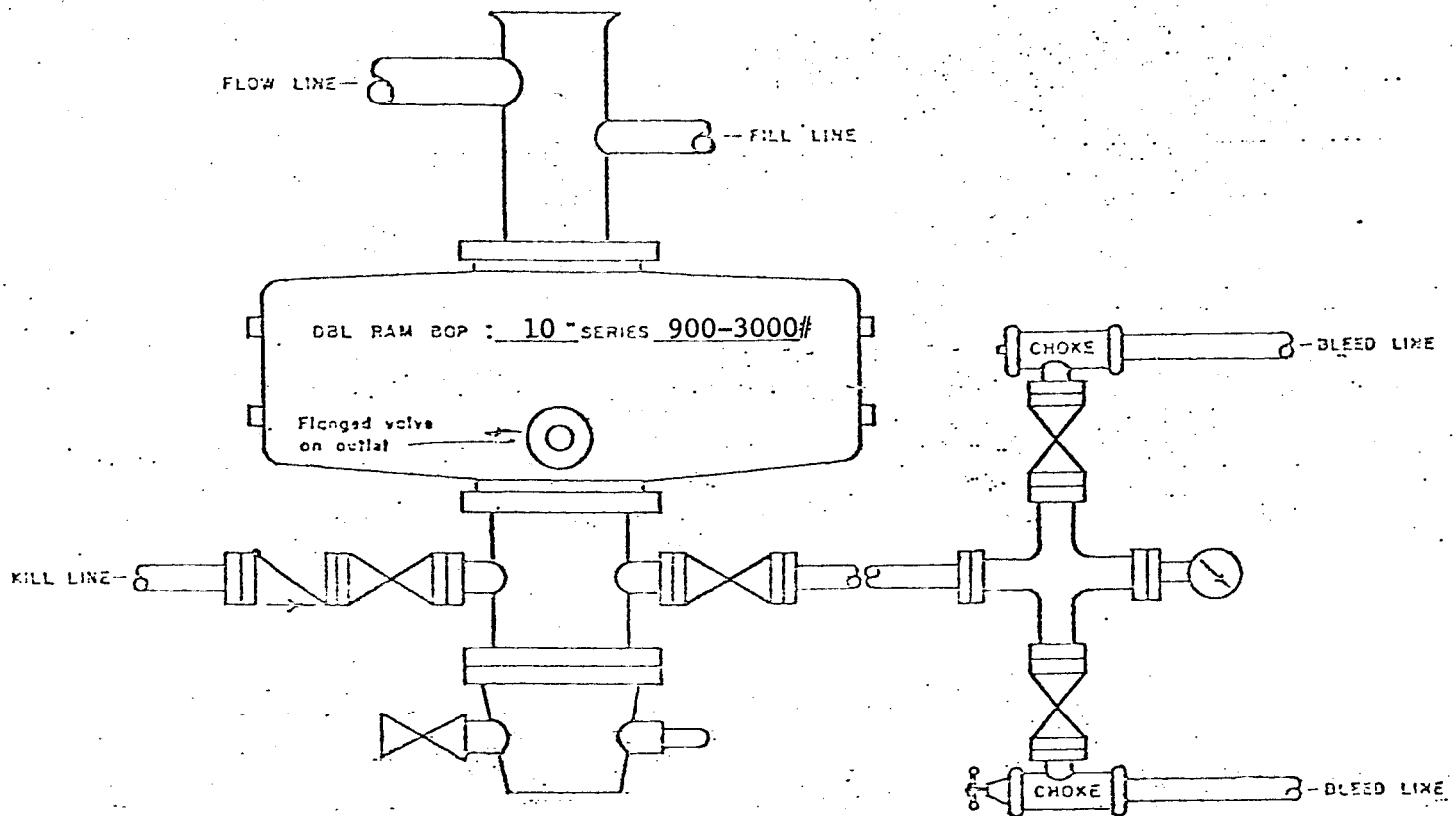
The U.S.G.S. will be notified prior to using any flammable liquid.

9. ABNORMAL CONDITIONS

It is not anticipated that abnormal temperatures, pressures or toxic gas will be encountered.

10. DRILLING ACTIVITY

Typical Minimum BOP Specs (Schematic drawing)



Notes and Auxiliary Equipment

1. All lines, valves and fittings to be minimum 2"-3000# WP
2. All bolts to be installed and tight.
3. All crew members to be trained in and familiar with BOP equipment, accumulators, and procedures.
4. Hole to be kept full at all times.
5. (a) After nipping up, preventers will pressure tested at 1000 psi for 15 minutes before drilling out.
 (b) BOP will be inspected and operated at least daily to insure good working order.
 (c) All pressure and operating tests will be recorded on daily drilling report.
6. An upper kelly cock will be used at all times.
7. A drill pipe float will be available at all times for use when penetrating formations with anticipated abnormal pressures.
8. Mud system monitoring method: Visual
9. A 3000 psi WP full opening valve, properly subbed w/DP pin, will be available on the floor at all times.

Drilling will commence as soon as possible after approval depending on rig availability.

ENVIRONMENTAL IMPACT SURFACE USE AND
OPERATIONS PLAN FOR FEDERAL LEASES

MOSBACHER PRODUCTION CO.
SE SE LOT #4 SECTION 13, T 14 S, R 7 E
CARBON COUNTY, UTAH
LEASE NO. UTAH 29637

The following data is submitted herewith to supplement Application For Permit to Drill the captioned well:

1. EXISTING ROADS Refer to MAP A (Shown in RED)

- A. Proposed well site as staked. (Actual staking should include two each 200-foot reference stakes.)

The proposed well is staked and the surveyor's plat is attached.

- B. Route and distance from nearest town or locatable reference point to where access route leaves main road.

Travel north of Price on the freeway approximately 0.75 miles, then turn west onto the existing dirt road and proceed along this road approximately 14 miles. At this point turn north and travel 0.5 miles to the location.

- C. Access road to location color coded or labeled.

Refer to Map A shown in RED.

- D. If exploratory, show existing roads within a three mile radius (including type of surface conditions, etc.).

Existing roads within a three mile radius are shown on Map A. The existing roads are dirt.

- E. If development, show existing roads within one mile radius of well site.

N/A

- F. Plans for improvement and/or maintenance of existing roads.

There are no plans to improve existing roads, but they will be maintained as necessary, flat blading existing trail to location.

2. PLANNED ACCESS ROADS (Map showing necessary access roads to be constructed or reconstructed, showing:)

Refer to Map A (Shown in GREEN)

1. Width -18'
 2. Maximum grade - 4% or less
 3. Turn out - None required
 4. Drainage design - No ditching will be required for drainage during the drilling of this well
 5. Location and size of culverts and brief description of any major cuts and fills. There will be no major cut or fills. No culverts will be required.
 6. Surface material - None required
 7. Necessary gates, cattleguards or fence cuts - None required.
 8. New or reconstructed roads are to be center-line flagged at time of location staking- Center line of the proposed road is flagged.
3. LOCATION OF EXISTING WELLS: Refer to Exhibit #1
- Two-mile radius map if exploratory, or 1-mile radius map if development well, showing and identifying existing:
1. Water wells - 0
 2. Abandon wells - 4
 3. Temporarily abandoned wells - 0
 4. Disposal wells - 0
 5. Drilling wells - 0
 6. Producing wells - 0
 7. Shut-in wells - 0
 8. Injection wells - 0
 9. Monitoring or observation wells or other resources - 0
4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES.
- A. Within one mile radius of location showing the following existing facilities owned or controlled by lessee operator.
1. Tank batteries - 0
 2. Production facilities - 0

3. Oil gathering lines - 0

4. Gas gathering lines - 0

5. Injection lines - 0

6. Disposal lines - (note if lines are buried) N/A

B. New facilities contemplated in the event of production show:

Refer to Exhibit #2

1. Proposed location and attendant lines by flagging, if off well pad - All facilities will be located on the drill pad but will not be placed on fill.

2. Dimensions of facilities - Production facilities will require an area of approximately 250' X 250' (including the pit).

3. Constructed methods and material - Pumping unit only will be built on the existing drill pad. No Federal or Indian lands will be disturbed for construction materials.

4. Protective measures and devices to protect livestock

Fences will be installed around all facilities.

C. Plan for rehabilitation of disturbed areas no longer needed for operations after construction completed:

Rehabilitation of disturbed areas no longer needed for operation will be accomplished by grading, leveling and seeding as recommended by the Forest Service

5. LOCATION AND TYPE OF WATER SUPPLY Refer to Map A (Shown in BLUE).

A. Location and type of water supply either on map or by written description.

Water will be purchased from a private source and trucked to the location.

B. State method of transporting water and show any roads or pipelines needed.

Water will be trucked-see Map 'A'

C. If water well is to be drilled on lease, so state:

No water well will be required.

6. SOURCE OF CONSTRUCTION MATERIALS

- A. Show information either on map or by written description:

If any construction materials are required they will be obtained from private sources. No material obtained from Federal or Indian Lands.

- B. Identify if from Federal land.

Dirt will be from private sources.

- C. Describe where materials such as sand, gravel, stone and soil material are to be obtained and used:

Materials such as sand, gravel or stone, if required, will be obtained from private source. No Federal or Indian Land involved.

- D. Show any needed access roads crossing Federal or Indian lands under Item 2:

No access road for construction materials will be necessary.

7. METHODS FOR HANDLING WASTE DISPOSAL

Describe methods and location of proposed containment and disposal of waste material, including:

1. Cuttings - Drill cuttings separated from the mud will be contained in the reserve pit.

2. Drilling fluids

Drilling fluids will be contained in the mud tanks and in a reserve pit. The reserve pit will be fenced on three sides during drilling operations with woven wire and two strands of barb wire on top.

3. Produced fluids (oil, water)

Produced fluids, both oil and water will be contained in a test tank.

4. Sewage - A portable chemical toilet will be provided.

5. Garbage and other waste material should be fenced with mesh wire.

A fenced pit will be provided for trash. The pit will be completely enclosed with small mesh wire.

6. Statement regarding cleanup of well site area when rig moves out.

As soon as the rig moves out the area will be cleaned of all trash and materials and the fourth side of the pit fenced. The location and the reserve pit be leveled and restoration work will begin as soon as possible.

8. AUXILIARY FACILITIES

Identify all proposed camps and air strips on a map as to their location, area required, and construction methods:

No camps or airstrips will be constructed.

9. WELL SITE LAYOUT A plat not less than 1" = 50' showing:

1. Cross Section of drill pad with cuts and fills

Refer to Exhibit #3

2. Location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities, and soil stockpiles.

Refer to Exhibit #2

3. Rig orientation, parking areas and access roads.

Refer to Exhibit #2

4. Statement as to whether pits are to be lined or unlined.

The pits will be lined with plastic.

10. PLANS FOR RESTORATION OF SURFACE

State restoration program upon completion of operations including:

1. Backfilling, leveling, contouring and waste disposal, segregation of spoils materials as needed.

Pits will be allowed to dry and will be backfilled and contoured to as near the original topography as is possible and then reseeded.

Spoils material will be segregated and burned, hauled away or burned as soon as possible after the operations have ceased.

2. Revegetation and rehabilitation - including access roads. (Normally per Forest Service recommendations)

Revegetation will be achieved by seeding with a mixture as required by the Forest Service, including the access road if required

3. Prior to rig release, pits will be fenced and so maintained until clean-up.

Prior to rig release, the pits will be fenced on all four sides and will be so maintained until restoration work is initiated.

4. If oil on pit, remove oil or install overhead flassings.

The oil in the pit will be removed, or if this isn't possible, overhead flassing will be installed.

5. Time table for commencement and completion of rehabilitation operations.

Rehabilitation operations will begin as soon as practical after the rig is off location and should be completed by Spring 1982.

11. OTHER INFORMATION General description of:

1. Topography, soil characteristics, geological features, flora and fauna.

The general area around the location is flat sloping moderately up to the southwest. The area is covered with native grass, sagebrush, scrub cedar and mesquite trees. The fauna consists of native birds, mule deer and various types of small rodents.

2. Other surface use activities and surface ownership of all involved land.

The surface is used for livestock grazing.
Surface owner: Forest Service

3. Proximity of water, occupied dwellings, archeological, historical or cultural sites.

The general drainage is to the northeast. There are no occupied dwellings, archeological, historical, or cultural sites visible on or near the location. The nearest occupied dwellings is approximately 6 miles to south.

12. LESEE'S OR OPERATOR'S REPRESENTATIVE:

Mr. Don Green
Operations Manager
Mosbacher Production Co.
Suite 2100
Capital National Bank Bldg.
Houston, Tx. 77002

Allen, Bludworth & Crouch
P.O. Box 976
Casper, WY. 82602
307 234 0592
307 234 3571
L.E. Bludworth*
B.W. Allen*

*Contact for Pre-drill Inspection

13. CERTIFICATION:

I hereby certify that I or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true

and correct; and, that the work associated with the operations proposed herein will be performed by Mosbacher Production Co. and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

8/10/81

BW Allen

Date



MOSBACHER FED. 13-1
RED-EXISTING ROAD
GREEN-PROPOSED ROAD
BLUE-WATER HAUL ROUTE

MAP A

R.T.E. (Hiawatha)

SCALE 1:62,500

INTERIOR GEOLOGICAL SURVEY WASHINGTON, D.C. 1965

R.B.E.

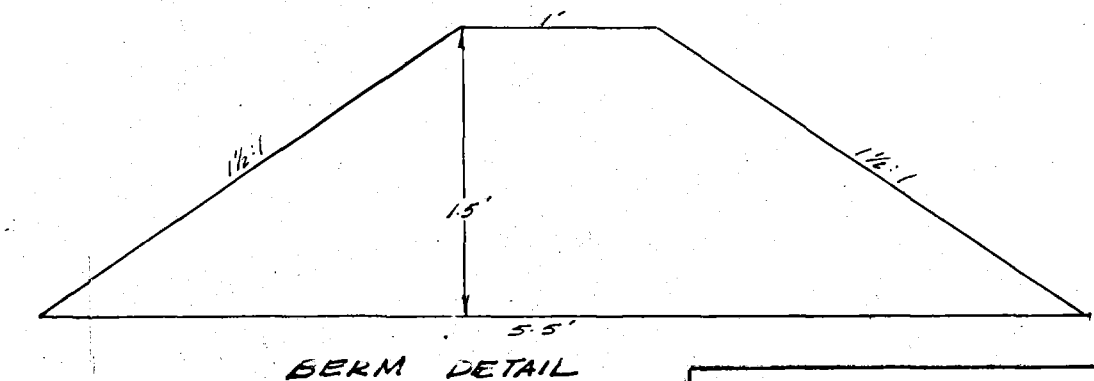
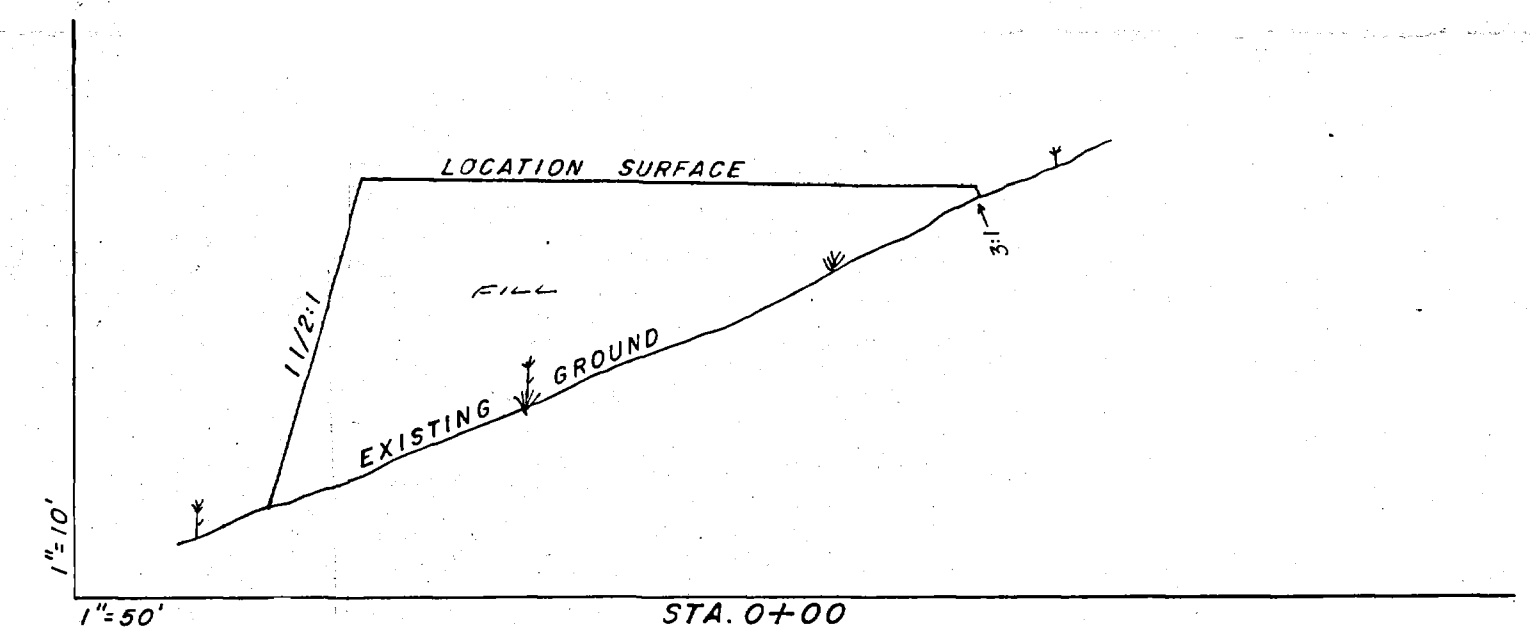
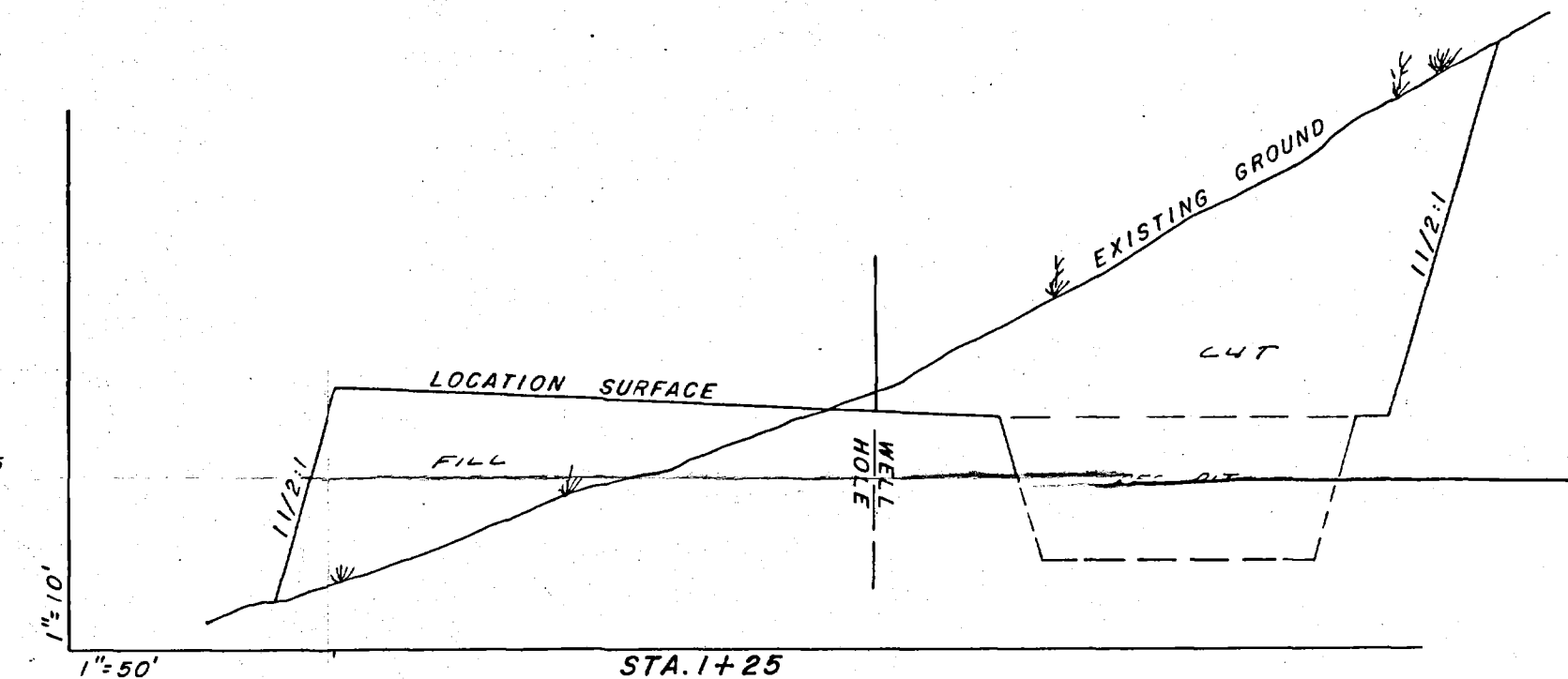
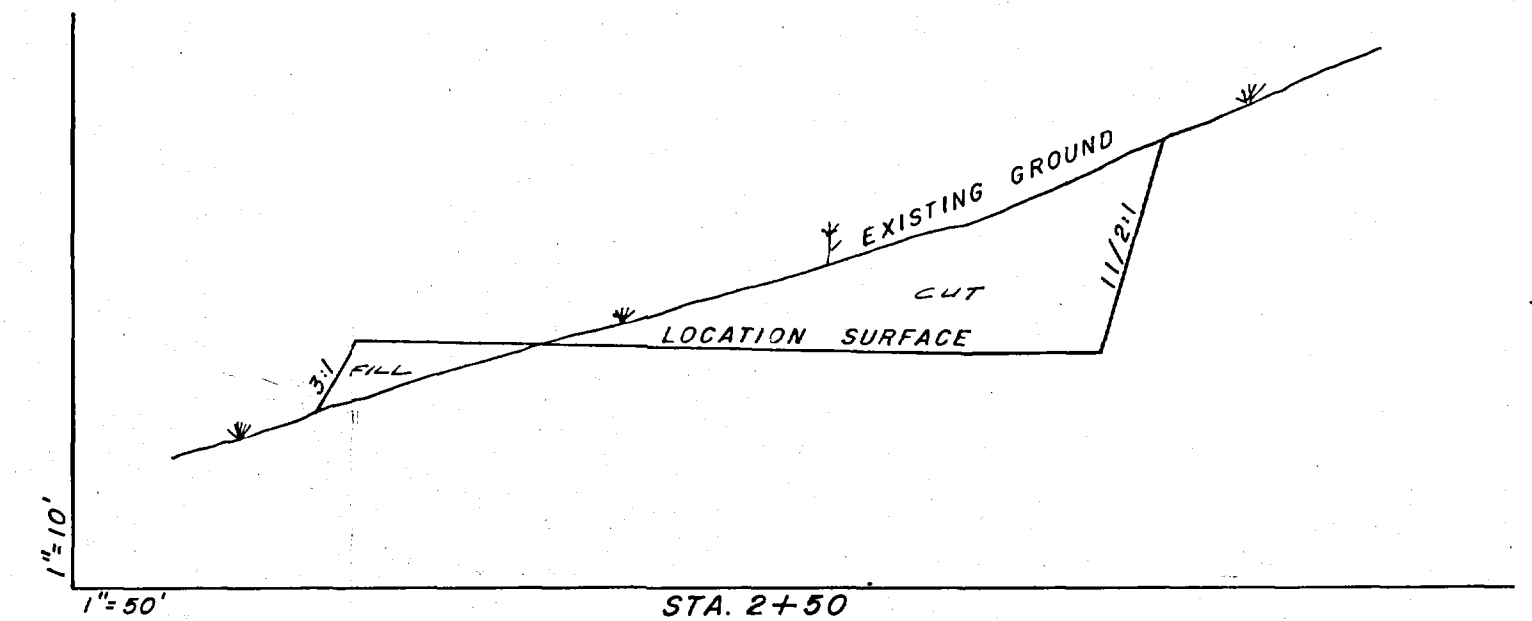
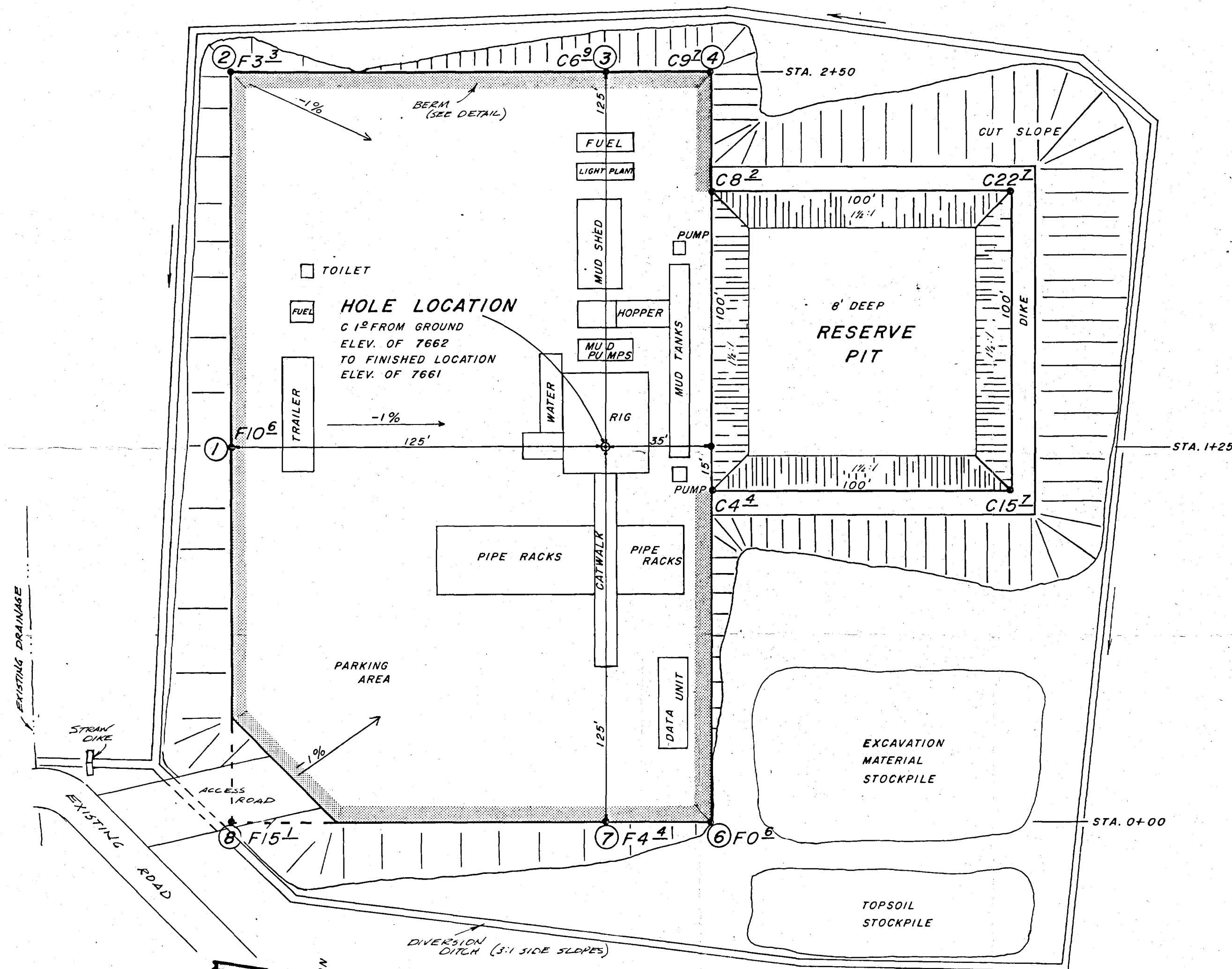
Polyconic projection To place on 1927 North American
map projection lines 75 feet north and 1927
19000

MOSBACHER PRODUCTION CO.

WELL LAYOUT PLAT

FEDERAL 13-1

LOCATED IN THE SE $\frac{1}{4}$ OF THE SE $\frac{1}{4}$ OF
SECTION 13, T14S, R7E, S.L.B.&M.



NOTES

ALL CONSTRUCTION WILL BE IN ACCORDANCE WITH
U.S. FOREST SERVICE GUIDELINES.

THE LOCATION SURFACE WILL BE COVERED WITH
4" ϕ GRAVEL.

APPROXIMATE QUANTITIES

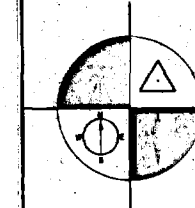
CUT: 14,000 cu. yds.
FILL: 7,100 cu. yds.

EXHIBIT #2

EXHIBIT #3

5 AUGUST 1981

81-124-002



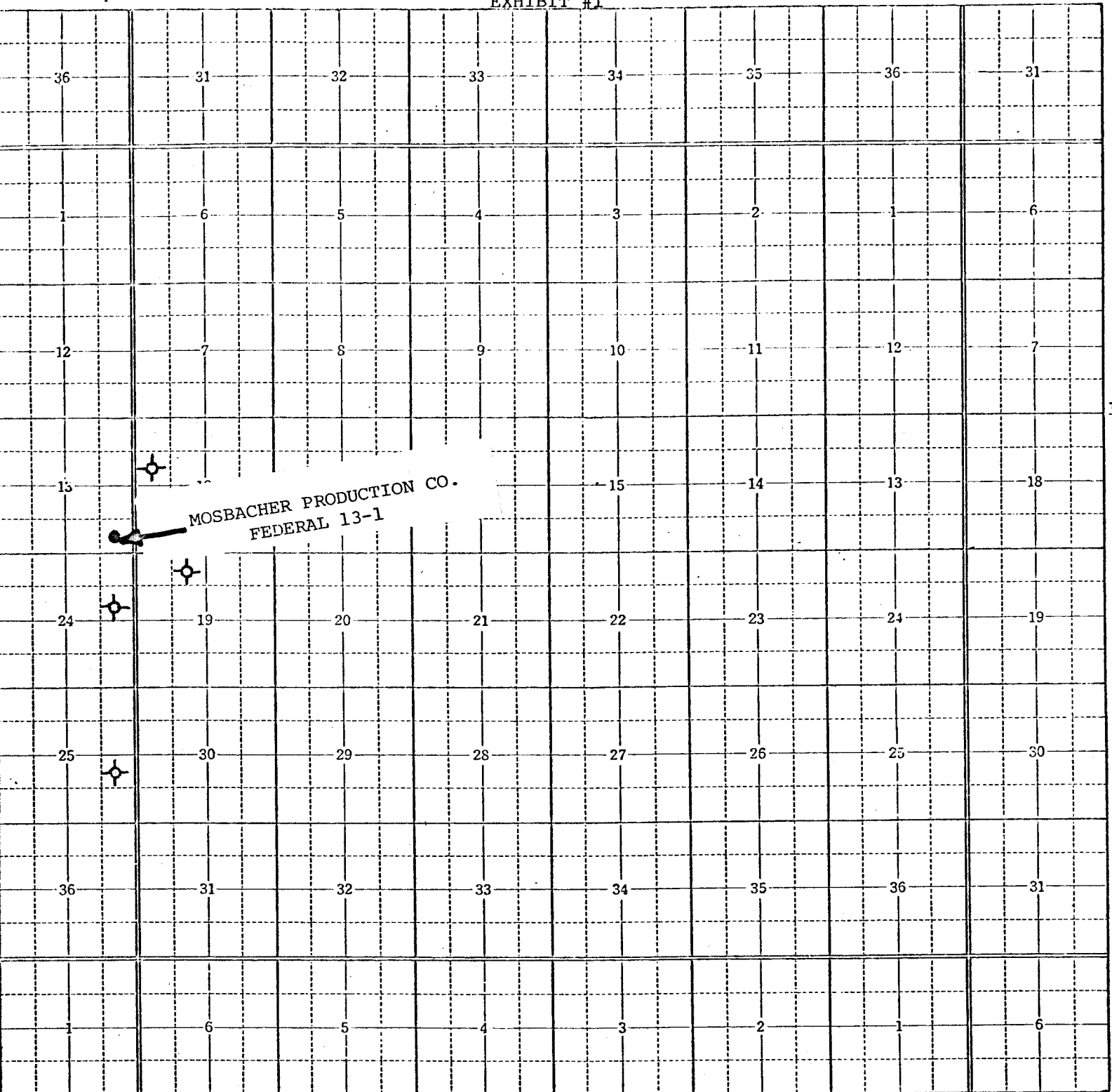
JERRY D. ALLRED & ASSOCIATES
Surveying & Engineering Consultants

121 North Center Street
P.O. Drawer C
DUCESNE, UTAH 84021
(801) 738-5352

Township 14 S., Range 7 E., County Carbon, State Utah

land Township Plat

EXHIBIT #1



R 7 E

R 8 E

KINTZEL BLUE PRINT CO., P. O. Box 741, Casper, Wyoming

SE NE Section 24, T 14 S, R 7 E

NE SE Section 25, T 14 S, R 7 E

SW NW Section 18, T 14 S, R 8 E

NE NW Section 25, T 14 S, R 8 E

EXHIBIT #1

**** FILE NOTATIONS ****

DATE: 1-18-82
OPERATOR: Motuck Production Co.
WELL NO: Federal # 13-1
Location: Sec. 13 T. 14S R. 7E County: Carbon

File Prepared: ☒ Entered on N.I.D: ☒
Card Indexed: ☒ Completion Sheet: ☒

API Number 43-007-30073

CHECKED BY:

Petroleum Engineer: _____

Director: OK as per rule C-3

Administrative Aide: OK as per Rule C-3,

APPROVAL LETTER:

Bond Required: ☐ Survey Plat Required: ☐
Order No. _____ O.K. Rule C-3 ☐
Rule C-3(c), Topographic Exception - company owns or controls acreage
within a 660' radius of proposed site ☐
Lease Designation Gen Plotted on Map ☐
Approval Letter Written ☐
Hot Line ☒ P.I. ☒

January 19, 1982

mosbacher Production Company
c/o Allen, Bludworth & Crouch
P. O. Box 976
Casper, Wyoming 82602

RE: Well No. Federal #13-1
Sec. 13, T. 14S, R. 7E
Carbon County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immedeately notify the following:

CLEON B. FEIGHT - Director
Office: 533-5771
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-007-30073.

Sincerely,

DIVISION OF OIL, GAS AND MINING



Cleon B. Feight
Director

CBF/as
Encl.
cc: 8sgs

Oil and Gas Operations
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

December 30, 1982

Mosbacher Production Company
c/o Allen, Bludworth & Crouch
P. O. Box 976
Casper, Wyoming 82602

Re: Rescind Application for Permit to
Drill
Well No. 13-1
Section 13, T.14S., R.7E.
Carbon County, Utah
Gordon Creek II Unit
Lease U-29637

Gentlemen:

The Application for Permit to Drill the referenced well was approved on November 2, 1981. Since that date no known activity has transpired at the approved location. Under District policy, applications for permit to drill are effective for a period of one year. In view of the foregoing this office is rescinding the approval of the referenced application without prejudice. If you intend to drill at this location at a future date, a new application for permit to drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of the well will be rehabilitated. A schedule for this rehabilitation must then be submitted to this office. Your cooperation in this matter is appreciated.

Sincerely,

(Orig. Sgd.) A. M. RAFFOUL

for E. W. Guynn
District Oil and Gas Supervisor

bcc: SMA
State O&G
State BLM
Vernal
Well File
APD Control

WPM/kr

January 5, 1983

Mosbacher Production Company
c/o Allen, Bludworth & Crouch
P.O. Box 976
Casper, Wyoming 82602

RE: Application for Permit to Drill
Well No. 13-1
Sec. 13, T.14S, R.7E
Carbon County, Utah

Gentlemen:

Approval of Application for Permit to Drill the above referenced well is rescinded without prejudice as of the above date in concert with action taken by Minerals Management Service.

If you intend to drill this location at a future date, a new application for permit to drill may be submitted for State approval.

Sincerely,

Norm Stout
Administrative Assistant

NS/as